

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
10 February 2005 (10.02.2005)

PCT

(10) International Publication Number
WO 2005/011785 A1

(51) International Patent Classification⁷:

A61M 16/16

(74) Agents: ADAMS, Matthew, D et al.; A J Park, 6th Floor Huddart Parker Building, PO Box 949, Wellington, 6015 (NZ).

(21) International Application Number:

PCT/NZ2004/000166

(22) International Filing Date: 27 July 2004 (27.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
527381 1 August 2003 (01.08.2003) NZ

(71) Applicant (for all designated States except US): FISHER & PAYKEL HEALTHCARE LIMITED [NZ/NZ]; 15 Maurice Paykel Place, East Tamaki, Auckland, 1306 (NZ).

(72) Inventors; and

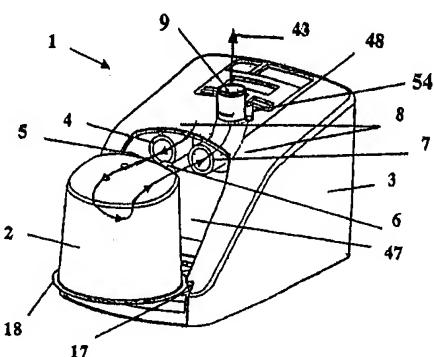
(75) Inventors/Applicants (for US only): MAKINSON, Ian, Douglas [NZ/NZ]; 19 Leone Terrace, Mt Albert, Auckland, 1003 (NZ). KRAMER, Martin, Paul, Friederich [NZ/NZ]; 15A Wilkinson Road, Ellerslie, Auckland, 1005 (NZ).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

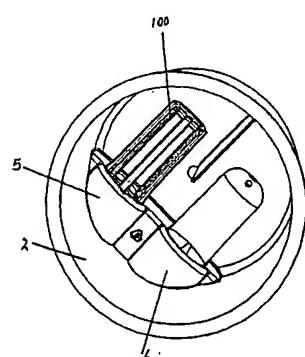
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

[Continued on next page]

(54) Title: DEVICE FOR SUPPLYING A RESPIRATORY GAS WITH INTEGRATED HUMIDIFIER



(57) Abstract: An apparatus (1) for use humidified gases delivery treatment comprising a housing , a humidifier, and a chamber heating means connected to said housing, said housing includes a pressurized gases supply, a humidifier engagement (17), a pressurized gases outlet (4), a humidified gases return (7), and a patient outlet (9), said humidifier includes a humidification chamber (2) having a base, a humidifier inlet (5), a humidifier outlet (6) and said chamber is engagable with said humidifier engagement (17) via a single motion, and said single motion of engagement urges the base of said humidification chamber adjacent and in contact with said chamber heating means and makes a first fluid connection between said pressurized gases outlet (4) and said humidifier inlet (5), and makes a second fluid connection between said humidified gases return (7) and said humidifier outlet (6), with said first and second fluid connections being made in the direction of said single motion.



WO 2005/011785 A1



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*